



PATENT  
Attorney Docket No. A-67032-2  
Attorney File No.: 463037-00022

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

*In re* application of

BAMDAD *et al.*

Serial No. 10/016,416

Filed: December 10, 2001

For: *Detection of Target Analytes  
Using Particles and Electrodes*

Art Unit: 1634

Examiner: LU, Frank Wei Min

**"EXPRESS MAIL" LABEL NO.:**  
**EV 554099086 US**

**INFORMATION DISCLOSURE STATEMENT  
AND  
STATEMENT OF RELATEDNESS**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants wish to draw the attention of the U.S. Patent and Trademark Office to the references cited on the accompanying form PTO/SB/8A. In accordance with 1287 Off. Gaz. Pat. Office 163, 10/19/2004, no copies of U.S. patents and U.S. published applications are enclosed. Copies of all other references are enclosed.

Further, this application is a continuation of the following related U.S.

Application – Serial No. 09/428,155, filed October 27, 1999 (pending). Applicant wishes to draw the attention of the U.S. Patent and Trademark Office to the references cited on

the accompanying substitute for form PTO-1449 marked with an asterisk (\*). Since these references were previously disclosed in the above-mentioned application, in accordance with 37 C.F.R. § 1.98(d), no copies of these references are enclosed.

Further, in satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and as required by M.P.E.P. § 2001.06(b), Applicant notes that the present application is related to the following pending patent applications:

1. U.S.S.N. 08/873,978, filed June 12, 1997; U.S.S.N. 09/557,577, filed April 21, 2000;
2. U.S.S.N. 08/873,597, filed August 14, 1997;
3. U.S.S.N. 09/135,183, filed August 17, 1998;
4. U.S.S.N. 09/452,277, filed December 3, 1999;
5. U.S.S.N. 09/440,371, filed November 12, 1999; U.S.S.N. 09/712,792, filed November 13, 2000;
6. U.S.S.N. 09/295,691, filed April 21, 1999; U.S.S.N. 11/043,515, filed January 25, 2005;
7. 10/746,903, filed December 23, 2003;
8. U.S.S.N. 09/245,105, filed January 27, 1999;
9. U.S.S.N. 09/626,096, filed July 26, 2000;
10. U.S.S.N. 09/760,384, filed January 11, 2001; U.S.S.N. 09/993,342, filed November 5, 2001; and
11. U.S.S.N. 10/803,166, filed March 16, 2004.

Nothing herein shall constitute an admission concerning the contents of any of the cited references, nor shall the inclusion of a reference herein be considered an admission

Serial No.: 10/016,416  
Filed: December 10, 2001

that the reference constitutes prior art against the invention claimed in the above-identified application. Submission of the present document shall not be construed as an admission that a search has been made or that better art does not exist.

Pursuant to 37 C.F.R. §1.97(c), enclosed is a check in the amount of \$180.00 as set forth in 37 C.F.R. §1.17(p). While no fee is believed to be due, if this belief is in error, the Commissioner is authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2319 (File No.: 463037-00022; Docket No.: A-67032-2).

Please direct further questions in connection with this Application to the undersigned at (415) 781-1989.

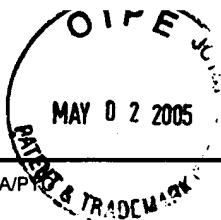
Respectfully submitted,  
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Michael F. Kolman, Reg. No. 54,234  
Patent Agent for  
Robin M. Silva, Reg. No. 38,304

*Filed Under 37 C.F.R. § 1.34*

Attachments: Form SB/08/A-B, substitute for Form PTO-1449  
60 cited references  
Check for \$180.00



|  |   |    |                          |                        |                          |
|--|---|----|--------------------------|------------------------|--------------------------|
| <b>Substitute for form 1449A/P</b><br>(Modified)<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary). |   |    | <b>Complete if Known</b> |                        |                          |
|  |   |    | Application Number       | 10/016,416             |                          |
|  |   |    | Filing Date              | December 10, 2001      |                          |
|  |   |    | First Named Inventor     | BAMDAD, Cynthia C.     |                          |
|  |   |    | Art Unit                 | 1634                   |                          |
|  |   |    | Examiner Name            | LU, Frank Wei Min      |                          |
| Sheet  | 1 | of | 7                        | Attorney Docket Number | A-67032-2 (463037-00022) |

| U.S. PATENT DOCUMENTS |                       |   |                                |   |  |
|-----------------------|-----------------------|---|--------------------------------|---|--|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number<br>Number-Kind Code <sup>2</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant Figures Appear |
|                       | A1 *                  | 4,707,440   | 11-17-1987                     | Stavrianopoulos                                 |  |
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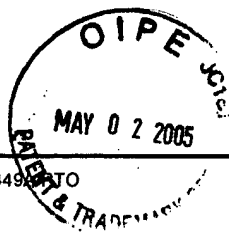
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|--------------------|-----------------|
| Examiner Signature | Date Considered |
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the complete application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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|   |   |    |                          |                        |                          |
|---|---|----|--------------------------|------------------------|--------------------------|
| <b>Substitute for form 1449 PTO (Modified)</b><br><br><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |   |    | <b>Complete if Known</b> |                        |                          |
|   |   |    | Application Number       | 10/016,416             |                          |
|   |   |    | Filing Date              | December 10, 2001      |                          |
|   |   |    | First Named Inventor     | BAMDAD, Cynthia C.     |                          |
|   |   |    | Art Unit                 | 1634                   |                          |
|   |   |    | Examiner Name            | LU, Frank Wei Min      |                          |
| Sheet   | 2 | of | 7                        | Attorney Docket Number | A-67032-2 (463037-00022) |

**U.S. PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number Number-Kind Code <sup>2</sup> (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
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Substitute for form 1449A/P  
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

### Complete if Known

|                        |                          |
|------------------------|--------------------------|
| Application Number     | 10/016,416               |
| Filing Date            | December 10, 2001        |
| First Named Inventor   | BAMDAD, Cynthia C.       |
| Art Unit               | 1634                     |
| Examiner Name          | LU, Frank Wei Min        |
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Sheet **3** of **7**

### U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number<br>Number-Kind Code <sup>2</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
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### FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document<br>Country Code <sup>2</sup> Number <sup>4</sup> Kind Code <sup>5</sup><br>(if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>6</sup> |
|--------------------|-----------------------|---|--------------------------------|---|---|----------------|
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|                    | B15                   | WO 98/01758 A1  | 01-15-1998                     | Nanogen, Inc.                                   |   |                |
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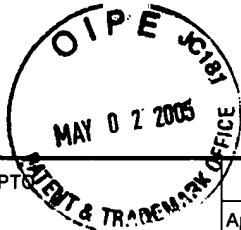
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Substitute for form 1449A/PTO  
(Modified)

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

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| Application Number     | 10/016,416               |
| Filing Date            | December 10, 2001        |
| First Named Inventor   | BAMDAD, Cynthia C.       |
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Sheet

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of

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### FOREIGN PATENT DOCUMENTS

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|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
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|                    | B20 *                 | WO 98/35232 A2/A3   | 08-13-1998                     | University of North Carolina at Chapel Hill        |   |                |
|                    | B21                   | WO 98/57159 A1  | 12-17-1998                     | Clinical Micro Sensors, Inc.                       |   |                |
|                    | B22                   | WO 99/37819 A2/A3   | 07-29-1999                     | Clinical Micro Sensors, Inc.                       |   |                |
|                    | B23                   | WO 99/57319 A1  | 11-11-1999                     | Clinical Micro Sensors, Inc.                       |   |                |
|                    | B24                   | WO 99/67425 A2/A3   | 12-29-1999                     | Clinical Micro Sensors, Inc.                       |   |                |
|                    | B25                   | WO 00/16089 A2/A3   | 03-23-2000                     | Clinical Micro Sensors, Inc.                       |   |                |
|                    | B26                   | WO 00/24941 A1  | 05-04-2000                     | Clinical Micro Sensors, Inc.                       |   |                |
|                    | B27                   | WO 00/38836 A1  | 07-06-2000                     | Clinical Micro Sensors, Inc.                       |   |                |
|                    | B28                   | WO 00/62931 A1  | 10-26-2000                     | Clinical Micro Sensors, Inc.                       |   |                |
|                    | B29                   | WO 01/06016 A2/A3   | 01-25-2001                     | Clinical Micro Sensors, Inc.                       |   |                |
|                    | B30                   | WO 01/07665 A2/A3   | 02-01-2001                     | Clinical Micro Sensors, Inc.                       |   |                |
|                    | B31                   | WO 01/35100 A2/A3   | 05-17-2001                     | Clinical Micro Sensors, Inc.                       |   |                |
|                    | B32                   | WO 01/54813 A2/A3   | 08-02-2001                     | Clinical Micro Sensors, Inc.                       |   |                |
|                    | B33                   | WO 02/43864 A2  | 06-06-2002                     | Clinical Micro Sensors, Inc.                       |   |                |
|                    | B34                   | WO 03/085082 A2   | 10-16-2003                     | Clinical Micro Sensors, Inc.                       |   |                |

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|--------------------|-----------------------|---|----------------|
|                    | C1 *                  | AIZAWA, M., et al., "Integrated molecular systems for biosensors," <i>Sens. Actuators B Chem.</i> 24(1&3):1-5 (Mar. 1995).  |                |
|                    | C2 *                  | ALLEMAN, K.S., et al., "Electrochemical rectification at a monolayer-modified electrode," <i>J. Phys. Chem.</i> 100:17050-17058 (Oct. 1996).  |                |
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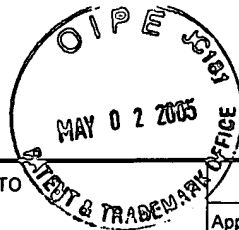
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|------------------------|--------------------------|
| Application Number     | 10/016,416               |
| Filing Date            | December 10, 2001        |
| First Named Inventor   | BAMDAD, Cynthia C.       |
| Art Unit               | 1634                     |
| Examiner Name          | LU, Frank Wei Min        |
| Attorney Docket Number | A-67032-2 (463037-00022) |

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|                    | C7 *                  | BOGUSLAVSKY, L., et al., "Applications of redox polymers in biosensors," <i>Solid State Ionics</i> 60:189-197 (1993).   |                |
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|                    | C11 *                 | CHIDSEY, C., et al., "Coadsorption of ferrocene-terminated and unsubstituted alkanethiols on gold: electroactive self-assembled monolayers," <i>J. Am. Chem. Soc.</i> 112(11):4301-4306 (May 1990).   |                |
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|                    | C22                   | GAFNI, Y., et al., "Biomimetic Ion-Binding Monolayers on Gold and Their Characterization by AC-Impedance Spectroscopy," <i>Chem. Eur. J.</i> 2(7):759-766 (1996).   |                |
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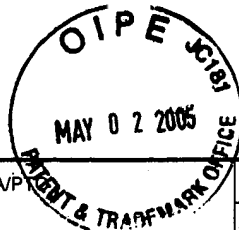
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| Filing Date            | December 10, 2001        |
| First Named Inventor   | BAMDAD, Cynthia C.       |
| Art Unit               | 1634                     |
| Examiner Name          | LU, Frank Wei Min        |
| Attorney Docket Number | A-67032-2 (463037-00022) |

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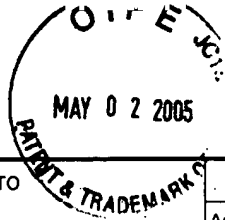
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|   |   |    | Filing Date              | December 10, 2001      |                          |
|   |   |    | First Named Inventor     | BAMDAD, Cynthia C.     |                          |
|   |   |    | Art Unit                 | 1634                   |                          |
|   |   |    | Examiner Name            | LU, Frank Wei Min      |                          |
| Sheet   | 7 | of | 7                        | Attorney Docket Number | A-67032-2 (463037-00022) |

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|                                 | C43                   | SMALLEY, J., et al., "Kinetics of Electron Transfer through Ferrocene-Terminated Alanethiol Monolayers Gold," <i>J. Phys. Chem.</i> 99(35):13141-13149 (Aug. 1995).   |                |
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